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Sei v 1

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 10-254581
 (43)Date of publication of application : 25.09.1998

(51)Int.CI.

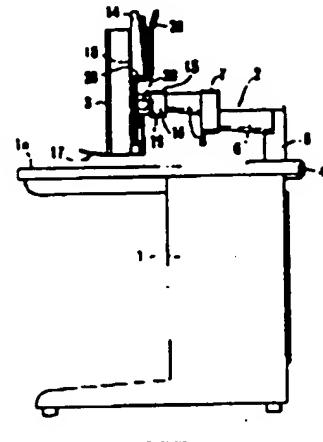
G09F 1/16
G09F 9/00

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 (22)Date of filing : 11.03.1997 (72)Inventor : KANAI HIROSHI
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(54) FLAT DISPLAY MOUNTING DEVICE

(57)Abstract:

PROBLEM TO BE SOLVED: To prevent the extinction of the space of a desk top surface by mounting and storing a keyboard behind a flat display when it is not used.
 SOLUTION: Relating to this flat display mounting device for which the back plate 18 of a flat display(FD) mounting plate 17 is supported so as to be turned upward to the tip of an FD supporting arm 2 fixed to a desk or the like and is free to swivel within a horizontal plane, for the FD mounting plate 17, a keyboard receiving member 26 is attached behind the back plate 18 and the keyboard 14 is mounted and stored between the pack plate 18 and the keyboard receiving member 26.



LEGAL STATUS

- [Date of request for examination]
- [Date of sending the examiner's decision of rejection]
- [Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]
- [Date of final disposal for application]
- [Patent number]
- [Date of registration]
- [Number of appeal against examiner's decision of rejection]
- [Date of requesting appeal against examiner's decision of rejection]
- [Date of extinction of right]

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(19)日本国特許庁 (JP)

(10)公開特許公報 (A)

(11)特許出願公開番号

特開平10-254581

(43)公開日 平成10年(1998)9月25日

(61)Int CL¹ **請求記号**
 G 06 F 1/10 351
 G 09 F 9/00

P 1
 G 06 F 1/00 312 V
 G 09 F 9/00 351

特許請求 未請求 請求項の数 6・OL (全 8 頁)

(21)出願番号 特願平9-56474
 (22)出願日 平成9年(1997)3月11日

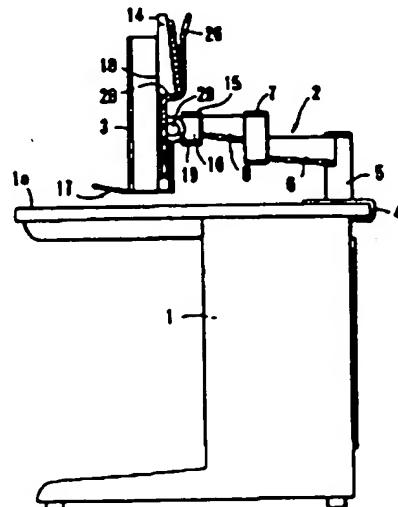
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(54)【発明の名前】 フラットディスプレイ装置

(55)【要約】

【課題】 キーボードの不使用時にフラットディスプレイの背側に配置するようにして机上面のスペースの活用を防ぐようすることを課題とする。

【解決手段】 机等に固定された水平面内で範囲目安なFD支持アーム2の先端にFD装置板17の背板18が回転可能に支持されたフラットディスプレイ装置装置において FD装置板17は その背板18の背側にキーボード受部26を取付け、同記背板18とキーボード受部26との間にキーボード14を配置はめし得るようとしたことにある。



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CLAIMS

[Claim(s)]

[Claim 1] It is flat display installation equipment characterized by FD installation board attaching keyboard receiving part material behind the background, and enabling it to carry out installation storing of the keyboard between the aforementioned background and keyboard receiving part material in the flat display installation equipment with which it was fixed to the desk etc. and the background of FD installation board was supported possible [forward-and-backward inclination] at the nose of cam of FD support arm in which it can circle freely in the level surface.

[Claim 2] the cylindrical material in which the aforementioned keyboard receiving part material has elasticity -- the shape of a downward abbreviation KO character -- forming -- the leg of right and left of this keyboard receiving part material -- support of the aforementioned FD installation board in back -- the flat display installation equipment according to claim 1 currently made as [make / set up / insert in a hole and / it]

[Claim 3] Flat display installation equipment according to claim 1 or 2 which has the installation shelf which is horizontally crooked in the upper part of the aforementioned keyboard receiving part material, attaches a shelf board in the crooked range, and enabled it to lay accessories, such as a mouse, on this shelf board.

[Claim 4] It is flat display installation equipment which carries out [that a FD installation board attaches a pre-guard and keyboard receiving part material behind the background, and enabled it to carry out installation storing of the keyboard between the guard before the above, and keyboard receiving part material in the flat display installation equipment with which it was fixed to the desk etc. and the background of FD installation board was supported possible / forward-and-backward inclination / at the nose of cam of FD support arm in which it can circle freely in the level surface, and] as the feature.

[Claim 5] the cylindrical material in which the aforementioned keyboard receiving part material and a pre-guard have elasticity -- the shape of a downward abbreviation KO character -- forming -- the leg of right and left of this keyboard receiving part material and a pre-guard -- support of the aforementioned FD installation board in back -- the flat display installation equipment according to claim 4 currently made as [make / set up / insert in a hole and / it]

[Claim 6] Flat display installation equipment according to claim 4 or 5 which has the installation shelf which is horizontally crooked in the upper part of either a front [ab ve] guard or keyboard receiving part material and both

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sides, attaches a shelf board in the crooked range, and enabled it to lay accessories, such as a mouse, on this shelf board.

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[特許請求の範囲]

[請求項1] 背面に固定された水平面内で前回自在なFD支持アームの先端にFD取置板の背面が面接可能に支持されたフラットディスプレイ取置装置において、FD取置板は、その背面の背面にキーホート受部材を有り、同記キーホート受部材との間にキーホートを配置して取置し得るようにしたことを特徴とするフラットディスプレイ取置装置。

[請求項2] 前記キーホート受部材は、個性を有する棒状材により下部を藉りコ字形に形成し、このキーホート受部材の左側の脚部を同記FD取置板の背部の支持孔に挿入して立壁させるようになされている請求項1記載のフラットディスプレイ取置装置。

[請求項3] 前記キーホート受部材の上部を水平方向に弯曲し、その屈曲した範囲に脚部を貫け、この脚部上にマウス等の小型部品を配置し得るようにした取置装置を有している請求項1または2記載のフラットディスプレイ取置装置。

[請求項4] 背面に固定された水平面内で前回自在なFD支持アームの先端にFD取置板の背面が面接可能に支持されたフラットディスプレイ取置装置において、FD取置板は、その背面の背面に脚部材およびキーホート受部材を取付けて、前記脚部材とキーホート受部材との間にキーホートを配置して取置し得るようにしたことを特徴とするフラットディスプレイ取置装置。

[請求項5] 前記キーホート受部材は、個性を有する棒状材により脚部材は、個性を有する棒状材により下部をコ字形に形成し、このキーホート受部材の左側の脚部を同記FD取置板の背部の支持孔に挿入して立壁し得るようにした取置装置を有している請求項4記載のフラットディスプレイ取置装置。

[請求項6] 前記脚部材またはキーホート受部材の一方または双方の上部を水平方向に弯曲し、その屈曲した範囲に脚部を貫け、この脚部上にマウス等の小型部品を配置し得るようにした取置装置を有している請求項4または5記載のフラットディスプレイ取置装置。

[発明の図並びの説明]

[0001]

[発明の属する技術分野] 本発明はフラットタイプのディスプレイを取置して販売・ディスプレイをデスク上に使用するためのフラットディスプレイ取置装置に係り、特にキーホートの不使用時にこれを取納することができるフロントディスプレイ取置装置に関する。

[0002]

[従来の技術] 近時、パーソナルコンピュータ(パソコン)等のOA機器は、オフィスはもとより家庭において多く使用されるようになっており、その普及にはめざましいものがある。

[0003] ところで上記のようなOA機器のCRTディスプレイは大きい奥行きを有するため机上で使用す

る場合にその机上面を大きく占有し、他の機器に著しく支障をきたしていた。

[0004] このようなことから近年では、マラウイ等使用的CRTディスプレイに代り、大型でフラットな液晶の液晶等の高型ディスプレイ(以下「フラットディスプレイ」と称し、同種機においてFDと略称する)が急速に普及している。

[0005] 上記のFDは、直立状態に立てて置けるFD用スタンドにFDを立てて取置し、見易い位置に置くようにして使用されている。

[0006] しかしこのようなスタンドでは、FDを使用し易い位置に取置せるとFDを含むスタンドの重量が大きいためその移動が面倒でない。

[0007] そこでFDを床面に近づけて使用し易い位置に取置せることができるようにするため、図13に示すように机1の後部にFD支持アーム2を取り付け、この支持アーム2の先端にFD3を立てて置けるようにしたものが用いられるようになっている。

[0008] 上記FD支持アーム2は、机1の天板1aの後端部に合して固定し得る取付具4に支持され立壁され、この取付具4の上部一側に机1の支持アーム6が水平方向に曳出され、この支持アーム6の先端に脚部7を介して第2の支持アーム8が水平面内で前回自在に連結され、さらにこの支持アーム8の先端に図14に示すような脚部連結字形を有するFD取置板9の垂直な背板10の背板の脚部11を脚部12により脚部自身に取付けられたもので、このFD取置板9の水平方向脚方に露出した脚部13にFD3を立てて置せるように構成されている。そして脚部用のキーホート14やマウスは机1上に置いて使用される。

[0009] したがってFD取置板9は、前記支持アーム6、8の位置により水平面内任意位置へ取付せることができ、脚部については前記脚部12をゆるめて脚部12を中心回転させることにより直角な角度に固定することができる。

[0010]

[発明が解決しようとする課題] 上記のFD支持アーム2を発用することにより、FD3を使用しないときは机面にならない位置へ置置させておくことができる。机上面の可動部を最小に保つことができるが、キーホート14やマウスは机上部の表面へ取置させたとしても依然として大きなスペースを占有してしまい、他の機器に支障をきたすことが避けられなかった。

[0011]

[課題を解決するための手段] 本発明は、キーホートの不使用時にキーホートやマウスをFD支持アームにFDと共に収納しておけるようにし、机上面での他の機器の置き方に支障をきたすことのないようにすることを課題としてなされたものである。

[0012] 上記課題を解決するための手段として本発

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3.3には両端のキーボード受部12の左右の側部27、27が組み込まれるようになっている。

【0026】したがってこのFD装置部17を用いたは、両端部27、27とキーボード受部12との間にキーボード14を挿入してもキーボード受部12のキーボード28、28上に位置関係され、キーボード14の両方への組みには向かって組み込まれる。これによればキーボード14の両行端が正しいものであってもこれを立てて安定よく組みしておくことができる。F

つの位置17の高さ18の高さを高くせずともよい。

【0027】図8～図10はキーボード14の両行端を大きく広げて位置関係を用いたるよう位置関係とし両端同じ形を示すもので、この実施形態におけるFD装置部17はその位置21および側部22、22の上部部22a、22bの支持孔36、37および38、39がFD装置部17の側面間に位置する高さとされ、側部部22、22の下部部22c、22cには両形の支持孔40、41が位置されてもり、この両形の支持孔は上部孔の支持孔38、37、38、39がある両端の側部と一緒にした位置とされていて、図6のようにキーボード受部20、21の側部27、27を支持孔36、36および37、38に、両側130の側部25、25を支持孔35、35を支持孔37、37および39、39に挿入すれば、これらキーボード受部12の高さより両ガード30の側部が位置関係によりこれら側部24、24、35、35は支持孔36、36、38、38の下端に位置し、その下端に側部部22、22の下部部22c、22cを図47、40、41には所せざる下端に位置し、その下端22c、22c上で留まっておかれる。これによりキーボード受部12の高さより両ガード30の上部孔からFD装置部17の高さ18の上方に大きく突出した状態になってキーボード受部12のキーボード28、28の位置も高い位置におかれる。両行端の長いキーボード14を位置関係するにあてる形となる。

【0028】側行端の大きいキーボード14を位置関係しないときは、キーボード受部12の高さより両ガード30の高さ27、27、35、35の下端はFD装置部17の上面に位置するまで下端することによりキーボード受部12のキーボード28の位置も下端し、これにより両行端の長いキーボード14であっても安定よく位置関係することができる。

【0029】図11(A)～(C)はオプションとして位置されるキーボード受部12および両ガードを示すもので、図11(A)は両ガード30の上部を手前側に水平に位置し、その位置した位置に側部42aと取付けたラッピング42とされたもので、図12に示す

するようにこの位置42にラッピング42aや手前側42b等の側部を置けるようになしたものである。

【0030】図11(B)はキーボード受部12の上部を後方へ水平に位置し、その位置した位置に側部43aと取付けた位置43とされ、この側部43に上記と同様にラッピング43を置けるようにしたものである。

【0031】さらに図11(C)はキーボード受部12

6を水平に位置した上部側44と左右の側部45、45と、両側部44の下端と側部45、45の上端片方に位置する側部との間におかれる位置の側部46、46と、キーボード受部47、47を両方に向け水平方向に位置して位置された左右一対の側部48、48とで構成され、両側部44と中間側46、46と中間側48、48とはいずれも側部ターブ49、50、51を介して接着され、止まり52、53、54により位置位置して留することにより部の長さ、高さを位置関係としたものである。

【0032】キーボード受部12の両ガード30は上記側のほか位置に同じ形の位置のものを用意することにより組みし使用に適する形のFD装置装置とすることができる。またFD装置アーム21は、机1の天板18に固定し、OA機器等用台であっても同様に使用することができる。さらにFD装置アーム21の位置は一例を示したままで、便りにFD3を支持して位置、留めし得るものあればよい。

【0033】

【実施の形態】以上詳述したように本発明によれば、フラットディスプレイを位置する装置部にキーボードを位置関係することができるようになしたことにより、キーボードを使用しないとき通常に位置にならない位置には納めておくことができる。机上部を広く使用することができます。OA機器の操作と一般事務操作との両方を一つの机により実現なく行うことができる。

【0034】またFD装置装置の背後側の両側に両ガードおよびキーボード受部を取付け、両側ガードとキーボード受部との間にキーボードを位置関係するようすれば、FD3を横位置して立てては約すると一層を定よく納めることができる。

【0035】さらに両ガードまたはキーボード受部の一方または両方の上部を水平方向に位置し、その位置した位置に側部を取付けた位置とし、この側部上にラッピング等の側部を位置し得らるようすればテーブル上をさらに広く使用することができる。

【図面の簡単な説明】

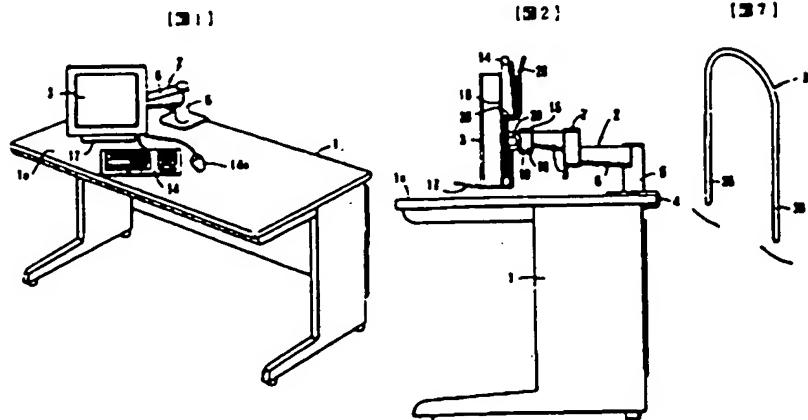
【図1】フラットディスプレイの使用状態のイメージを示す概要図。

【図2】本発明によるフラットディスプレイ装置装置の一實物形態を示し、キーボードを位置関係した位置を示す概要図。

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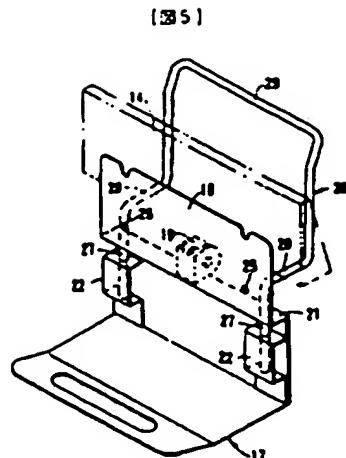
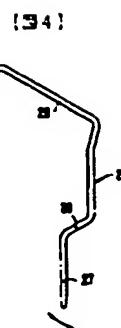
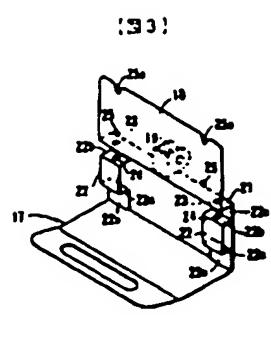
(33) 図1におけるFD装置板の詳細図。
 (34) 図1におけるキー-ポート受部材の詳細図。
 (35) 図3のFD装置板に図4のキーボード受部材を組みいたした状態を示す詳細図。
 (36) FD装置板の実用例を示す詳細図。
 (37) 図6のFD装置板に使用する紙カードの詳細図。
 (38) FD装置板の他の実用例を示す詳細図。
 (39) 図6のFD装置板にキーボード受部材および紙カードを実行部の小さいキー-ポート用として取付けたば
10 備を示す詳細図。
 (図10) 図1実行部の大さいキー-ポート用とした状態
の概要図。
 (図11) (A)～(C)は開ガードおよびキー-ボード
受部材の実用例を示す詳細図。
 (図12) 開ガードにマウス装置部を設けた場合の使用
状態を示す圖2用意図。
 (図13) 他の実用例を示す概要図。
 (図14) 図1におけるFD装置板の詳細図。
 (各号の説明) 20 49. 50. 51. 挿絵チャーフ
 1. 机



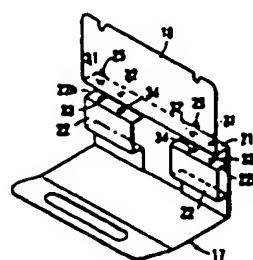
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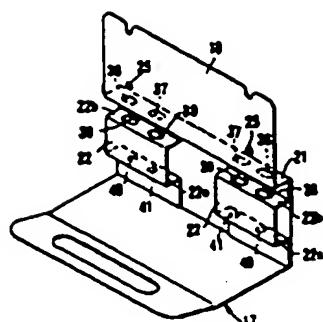
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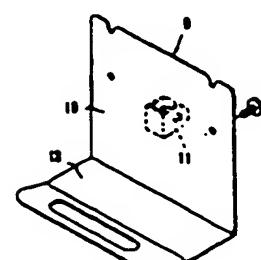
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DETAILED DESCRIPTION

[Detailed Description of the Invention]**[0001]**

[The technical field to which invention belongs] this invention relates to the flat display installation equipment which can be applied to the flat display installation equipment for laying a flat type display and using this display on a desk, especially can store this at the time of un-using [of a keyboard] it.

[0002]

[Description of the Prior Art] Recently, many office is used also at a home from the first, and, as for OA equipment, such as a personal computer (personal computer), there is a remarkable thing in the spread.

[0003] By the way, since the CRT display of above OA equipment has large overall depth, when using it on a desk, it occupied the desk upper surface greatly, and it had caused trouble remarkably to other works.

[0004] Since it is such, in recent years, thin shape displays (a flat display is called below and it is called FD for short in a specification), such as liquid crystal of structure [that it is large-sized and flat], have spread quickly instead of the CRT display of Braun-tube use.

[0005] The above-mentioned FD stands and lays FD in the stand for FD which can be conventionally stood and placed on a desk, and as it is put on a legible position, it is used for it.

[0006] However, since the weight of the stand containing FD is large when making it move to the position which is easy to use FD, the movement is not easy in such a stand.

[0007] Then, in order to enable it to make it move to the position which is easy to use FD if needed, as shown in drawing 13, FD support arm 2 is attached in the posterior part of a desk 1, and the thing stands FD3 at the nose of cam of this support arm 2, and it enabled it to place at it is adopted.

[0008] A support 5 is set up by the fixture 4 which the above-mentioned FD support arm 2 engages with the back end edge of top-plate 1a of a desk 1, and can be fixed. The 1st support arm 6 protrudes on the up unilater of this support 5 horizontally. The 2nd support arm 8 is connected at the nose of cam of this support arm 6 free [rotation] in the level surface through the vertical-axis section 7. The bearing 11 of the tooth back of the perpendicular background 10 of FD installation board 9 which has the shape of side *** of L characters as furthermore shown at the nose of cam of this support arm 8 at drawing 14 is what was attached inclinable by the horizontal axis 12. It is constituted so that FD3 may be stood and put on the installation section 13 jutted out ahead of [horizontal] this FD installation board 9. And the keyboard 14 and mouse for operation are

used, placing on a desk 1.

[0009] Therefore, FD installation board 9 can be moved to the arbitrary position in the level surface by revolution of the aforementioned support arms 6 and 8, and can be set as the optimal angle by loosening the aforementioned horizontal axis 12 about an elevation angle, and making it rock focusing on this horizontal axis 12.

[0010] [Problem(s) to be Solved by the Invention] Though the keyboard 14 and the mouse were temporarily moved to the paper back side although the deployment on the upper surface of a desk could be achieved since it was made to evacuate to the position which does not become obstructive when not using FD3 by using the above-mentioned FD support arm 2, the still big space was occupied, and causing trouble to other business was not avoided.

[0011] [Means for Solving the Problem] this invention stores a keyboard and a mouse in FD support arm with FD at the time of un-using [of a keyboard] it, and enables it to set them, and it makes making it not cause trouble to execution of other business on the upper surface of a desk as a technical problem.

[0012] In the flat display installation equipment with which this invention was fixed to the desk etc. as the above-mentioned The means for solving a technical problem, and the background of FD Installation board was supported possible [forward-and-backward inclination] at the nose of cam of FD support arm in which it can circle freely in the level surface, FD installation board attaches keyboard receiving part material behind the background, and is to have enabled it to carry out installation storing of the keyboard between the aforementioned background and keyboard receiving part material.

[0013] and the support which carried out crookedness formation of the aforementioned keyboard receiving part material by cylindrical material at the shape of a downward abbreviation KO character, and prepared the leg of right and left of this keyboard receiving part material in the tooth-back side of the background of FD installation board -- it is desirable to constitute so that installation storing may be carried out, where a keyboard is stood as sideways between the background of FD installation board and keyboard receiving part material as it inserts in a hole

[0014] In the flat display installation equipment with which it was fixed to the desk etc. and the background of FD installation board was supported possible [forward-and-backward inclination] at the nose of cam of FD support arm in which it can circle freely in the level surface, a pre-guard and keyboard receiving part material can be attached behind the background, and stability can improve [board / FD installation] Installation storing further in a keyboard by enabling it to carry out Installation storing in a keyboard between the guard before the above, and keyboard receiving part material.

[0015] When it furthermore has the aforementioned keyboard receiving part material or a pre-guard, the upper part is crooked horizontally, a shelf board can be attached in the crooked range, and it can consider as an installation shelf, and when **** which lays accessories, such as a mouse, in this installation shelving is made to be made, a table top can be used further widely.

[0016] [Embodiments of the Invention] Hereafter, with reference to the form of the

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operation which shows this invention to a drawing, the basic component which is common in drawing 13 is explained using the same sign.

[0017] Drawing 1 shows the busy condition of the flat display installation equipment by this invention, and drawing 2 shows the side in the state where installation storing of the keyboard 14 was carried out at the time of a **** busy condition.

[0018] FD support arm 2 shows what is depended on the same composition as the above-mentioned conventional technology, and with the support 5 set up by the upper surface of a fixture 4 that it can fix with the screw which engages with the back end edge of top-plate 1a of a desk 1, and is not illustrated The 1st support arm 6 which protruded in the up unilateral of this support 5 horizontally. It consists of the 2nd support arm 8 connected at the nose of cam of this support arm 6 by the vertical-axis section 7 free [revolution]. The bearing 16 rotated by the vertical-axis section 15 at the nose of cam of this support arm 8 can be attached in the bearing 19 which protruded on the tooth-back center section of the background 18 of FD installation board 17 Inclinable by the horizontal axis 20, and can fix now with the screw which is not illustrated in an arbitrary forward-and-backward inclination angle position.

[0019] The above-mentioned FD installation board 17 the shape of side **** of L characters with the form of operation shown in drawing 2 and drawing 3 Nothing. It is crooked in the shape of a crank, and a step 21 is formed so that the upper part section may **** ahead from the bearing 19 prepared in the tooth back of the background 18 in an upper position. It fixes by spot welding (or a screw, adhesion, etc.) to the shape of an abbreviation KO character at the background 18 by the flanges 22a and 22a which the foot receiving part material 22 and 22 by which crookedness formation was carried out juts out over the upper and lower sides so that it may have the thickness of depth of the step 21 concerned in the right-and-left both-sides edge by the side of the front face of the background 18 of the lower part of this step 21. the aforementioned step 21 and the upper surface sections 22b and 22b of the foot receiving part material 22 and 22 -- support -- holes 23, 23, 24, and 24 are drilled on the same axis In addition, Signs 25, 25, 25a, and 25a are the mounting holes drilled in the predetermined position of the background 18 in order to attach FD3.

[0020] In ****, crookedness formation of the keyboard receiving part material 26 is carried out at the shape of a downward KO character with the metal lever (or pipe) which has elasticity. that by which the legs 27 and 27 on either side were crooked in the shape of a **** crank in the middle, and the level portion was made the keyboard Installation sections 28 and 28 -- it is -- the leg 27 of the right and left, and the Interval between 27 -- support of right and left of the aforementioned FD installation board 17, although made equal to the interval of holes 23 and 23 the Interval between the soffits of these legs 27 and 27 -- the above-mentioned support -- the elasticity widely extended a little from the interval between a hole 23 and 23 -- having -- **** -- support of right and left of these legs 27 and 27 -- when it inserts in holes 23 and 23, and 24 and 24, the state where it was stabilized with the elasticity is held

[0021] In order to make a keyboard 14 easy to take in and out of the upper part, backward tilting of the portion of horizontal **** 29 of the upper limit of the above-mentioned keyboard receiving part material 26 is carried out a little.

[0022] therefore, the legs 27 and 27 of right and left of the above-mentioned keyboard receiving part material 26 -- support of FD installation

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board 17 -- if it inserts in holes 23 and 23, and 24 and 24, the soffit will be attached in the state where the immersion depth was decided and it was stabilized, in contact with the undersurface sections 22c and 22c of the foot receiving part material 22 and 22 (**5**)

[0023] Thereby, an interval is made between the upper part sections from the keyboard installation section 28 of the tooth back of the background 18 of FD installation board 17, and the keyboard receiving part material 26, and a keyboard 14 is laid on the keyboard installation section 28 of the keyboard receiving part material 26, and 28, and if a keyboard 14 is stood as sideways and inserted into this interval, as shown in drawing 2, a keyboard 14 can be stored behind FD3.

[0024] Since it enables it to correspond to the keyboard 14 with wide depth width of face, drawing 6 - drawing 10 enable it to attach the pre-guard 30 as shown in drawing 7 other than the keyboard receiving part material 26.

[0025] Holes 31, 32, 31, and 32 are drilled. the operation form shown in drawing 6 -- the step 21 of the background 18 of FD installation board 17 -- every two one side -- support -- Holes 33, 34, 33, and 34 are drilled. the upper surface sections 22b and 22b of the foot receiving part material 22 and 22 -- this support -- a hole 31 and 32 and coaxial line top -- support of every two one side -- The legs 35 and 35 of the right and left of the pre-guard 30 which crookedness formation is carried out at an inverted-U character form by the above-mentioned keyboard receiving part material 26 and the same cylindrical material, and have an extension habit as shown in holes 32 and 34, and 32 and 34 at drawing 7 are inserted. support of right and left of the above-mentioned inside -- support of outside right and left -- the legs 27 and 27 of right and left of the above-mentioned keyboard receiving part material 26 are inserted in holes 31 and 33, and 31 and 33

[0026] therefore, if this FD installation board 17 is used, a keyboard 14 will be inserted between the guard 30 before the above, and the keyboard receiving part material 17, and installation storing will be carried out on the keyboard installation section 28 of the keyboard receiving part material 17, and 28 -- having -- the front of a keyboard 14 -- falling -- it is protected by the pre-guard 30 Even if the depth width of face of a keyboard 14 is wide according to this, this can be stood and it can store with sufficient stability, and the height of the background 18 of FD installation board 17 is not made high, but ** is also good.

[0027] Drawing 8 - drawing 10 are what shows the operation form which enabled adjustment of the depth width of face of a keyboard 14 so that the optimal depth might be obtained according to size. It considers as the long hole to which holes 36 and 37, and 38 and 39 extend crosswise [of FD installation board 17]. FD installation board 17 in this operation form -- support of the step 21 and the upper surface sections 22b and 22b of the foot receiving part material 22 and 22 -- support circular in the undersurface sections 22c and 22c of the foot receiving part material 22 and 22 -- holes 40 and 41 puncture -- having -- **** -- this circular support -- a hole -- support of the above-mentioned long hole -- it considers as the position which was in agreement with the axis of each **** of holes 36, 37, 38, and 39 drawing 9 -- like -- the legs 27 and 27 of the keyboard receiving part material 26 -- support -- holes 36 and 36, and 38 and 38 -- the legs 35 and 35 of the pre-guard 30 -- support, if it inserts in holes 37 and 37, and 39 and 39 It is located in the outer edge of holes 36, 36, 38, and 38. these keyboard receiving part material 26 and the extension habit of the leg of the pre-guard 30 -- these legs 24, 24, 35, and 35 -- support -- the soffit -- support of the undersurface sections 22c and 22c of the foot receiving part

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material 22 and 22 -- it does not fit into holes 40 and 41, but stops on the undersurface section 22c and 22c thereby -- the keyboard receiving part material 26 and the upper part section of the pre-guard 30 -- the upper part of the background 18 of FD installation board 17 -- large -- projection -- the bottom -- a state -- becoming -- the position where the position of the keyboard installation sections 28 and 28 of the keyboard receiving part material 26 is also high -- it becomes a form suitable for carrying out installation storing of the keyboard 14 with narrow him and depth width of face

[0028] To carry out installation storing of the keyboard 14 with large depth width of face If it is made to bend so that each legs 27, 27, 35, and 35 of the keyboard receiving part material 26 and the pre-guard 30 may be mutually drawn near It has consistency and inserts in holes 40, 40, 41, and 41. the soffit of these legs is shown in drawing 10 -- as -- support of the inferior-surface-of-tongue sections 22c and 22c of the foot receiving part material 22 and 22 -- The position of the keyboard Installation section 28 of the keyboard receiving part material 26 also descends by descending until it contacts the upper surface of FD installation board 17, and installation storing can be improved it by stability even if the soffit of the legs 27, 27, 35, and 35 is the latus keyboard 14 of depth width of face by this.

[0029] Drawing 11 (A) - (C) is what illustrates the keyboard receiving part material and pre-guard which are prepared as an option. Drawing 11 (A) was crooked at a level with a near side in the upper part of the pre-guard 30, attached shelf board 42a in the crooked range, was used as the installation shelves 42, such as a mouse, and enables it to put accessories, such as mouse 14a and office supplies, on this installation shelf 42 so that it may illustrate to drawing 12.

[0030] Drawing 11 (B) is back crooked horizontally in the upper part of the keyboard receiving part material 26, attaches shelf board 43a in the crooked range, is used as the installation shelf 43, and enables it to put a mouse and accessories on this shelf 43 like the above.

[0031] The up frame 44 with which drawing 11-(C) was furthermore crooked to the KO typeface in the keyboard receiving part material 26, The middle frames 46 and 46 of L configuration set between the legs 45 and 45 on either side, and the soffit of the aforementioned up frame 44 and the edge crooked behind [upper-limit] the legs 45 and 45, Turn the keyboard installation sections 47 and 47 ahead, and it consists of shelf material 48 and 48 of the right-and-left couple formed by being crooked horizontally. The aforementioned up frame 44, the middle frames 46 and 46 and the middle frames 46 and 46, the legs 45 and 45 and the up frame 44, and the shelf material 48 and 48 are connected by each through the connection tubes 49, 50, and 51. Regulation of the length of each part and height is enabled by fixing with the ** screws 52, 53, and 54 in an arbitrary position.

[0032] Let the keyboard receiving part material 26 and the pre-guard 30 be FD installation equipment of a gestalt which fits use most by preparing the thing of various gestalten if needed besides the above-mentioned example. Moreover, FD support arm 2 can be similarly used, even if it is not only top-plate 1a of a desk 1 but a base only for OA equipment. Furthermore, If it requires, it is until an example was shown, and FD3 is supported, it circles and the composition of FD support arm 2 just inclines forward and backward.

[0033]

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[Effect of the Invention] As explained above, when not using a keyboard for the installation board which lays a flat display by having enabled it to carry out installation storing of the keyboard according to this invention, it can store in the part which does not become obstructive to work, and the desk upper surface can be used widely, and one desk can perform the both sides of the operation and general office work of OA equipment convenient.

[0034] Moreover, if a pre-guard and keyboard receiving part material are attached behind the background of FD installation board and it is made to carry out installation storing of the keyboard between the guard before the above, and keyboard receiving part material, when FD is stood and stored in a horizontal position, it can dedicate with much more sufficient stability.

[0035] Furthermore the upper part of either a pre-guard or keyboard receiving part material and both sides is crooked horizontally, a shelf board is attached in the crooked range, and it considers as an installation shelf, and if it enables it to lay accessories, such as a mouse, on this shelf board, a table top can be used still more widely.

[Translation done.]

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* NOTICES *

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1. This document has been translated by computer. So the translation may not reflect the original precisely.
2. *** shows the word which can not be translated.
3. In the drawings, any words are not translated.

DESCRIPTION OF DRAWINGS

[Brief Description of the Drawings]

[Drawing 1] The perspective diagram showing the image of the busy condition of a flat display.

[Drawing 2] The side elevation in which showing 1 operation gestalt of the flat display installation equipment by this invention, and showing the state where installation storing of the keyboard was carried out.

[Drawing 3] The perspective diagram of FD installation board in drawing 1.

[Drawing 4] The perspective diagram of the keyboard receiving part material in drawing 1.

[Drawing 5] The perspective diagram showing the state where the keyboard receiving part material of drawing 4 was attached to FD Installation board of drawing 3.

[Drawing 6] The perspective diagram showing the modification of FD installation board.

[Drawing 7] The perspective diagram of the pre-guard used for FD installation board of drawing 6.

[Drawing 8] The perspective diagram showing other modifications of FD installation board.

[Drawing 9] The perspective diagram showing the state where keyboard receiving part material and the pre-guard were attached as an object for keyboards with small depth width of face to FD installation board of drawing 8.

[Drawing 10] The perspective diagram in the state where it carried out to keyboards with large *** depth width of face.

[Drawing 11] (A) - (C) is the perspective diagram showing the modification of a pre-guard and keyboard receiving part material.

[Drawing 12] The drawing 2 equivalent view showing the busy condition at the time of forming a mouse installation shelf to a pre-guard.

[Drawing 13] The side elevation showing a Prior art.

[Drawing 14] The perspective diagram of FD Installation board in drawing 13.

[Description of Notations]

1 Desk

2 FD Support Arm

3 FD (Flat Display)

5 Support

9 17 FD installation board

14 Keyboard

18 Background

21 Step

22 Foot Receiving Part Material

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26 Keyboard Receiving Part Material
27 Leg
28 Keyboard Installation Section
30 Pre-Guard
35 Leg
42 43 Installation shelves, such as a mouse
44 Up Frame
45 Leg
46 Middle Frame
47 Keyboard Installation Section
48 Shelf Material
49, 50, 51 Connection tube

[Translation done.]